#### In the claims:

Please cancel claims 5-10, 15, 20, 25, 30-32, amend claims 1, 4, 11, 13, 16-18, 21, 23, 26 and 28 as follows:

1. (currently amended) A method for concealing errors in an encoded bit stream indicative of speech signals received in a speech decoder, wherein the encoded bit stream includes a plurality of speech frames arranged in speech sequences, and the speech frames include at least one partially corrupted frame preceded by one or more non-corrupted frames, wherein the partially corrupted frame includes a first long-term prediction lag value and a first long-term prediction gain value, and the non-corrupted frames include second long-term prediction lag values and second long-term prediction gain values, and wherein the second long-term prediction lag values include a last long-term prediction lag value, and the second long term prediction gain values include a last long term prediction gain value, said method comprising the steps of:

providing an upper limit and a lower limit based on the second long-term prediction lag values;

determining whether the first long-term prediction lag value is within or outside the upper and lower limits;

replacing the first long-term prediction lag value in the partially corrupted frame with a third lag value, when the first long-term prediction lag value is outside the upper and lower limits; and

retaining the first long-term prediction lag value in the partially corrupted frame when the first long-term prediction lag value is within the upper and lower limits.

- 2. (original) The method of claim 1, further comprising the step of replacing the first long-term prediction gain value in the partially corrupted frame with a third gain value, when the first long-term lag value is outside the upper and lower limits.
- 3. (original) The method of claim 1, wherein the third lag value is calculated based the second long-term prediction lag values and an adaptively-limited random lag jitter bound by further limits determined based on the second long-term prediction lag values.

4. (currently amended) The method of claim 2, wherein the third gain value is calculated based on of the second long-term prediction gain values and an adaptively-limited random gain jitter bound by limits determined based on the second long-term prediction gain values.

## Claims 5 - 10 (canceled)

11. (currently amended) A speech signal transmitter and receiver system for encoding speech signals in an encoded bit stream and decoding the encoded bit stream into synthesized speech, wherein the encoded bit stream includes a plurality of speech frames arranged in speech sequences, and the speech frames include at least one <u>partially</u> corrupted frame preceded by one or more non-corrupted frames, wherein the <u>partially</u> corrupted frame includes <u>frame</u> a first long-term prediction lag value and a first long-term prediction gain value, and the non-corrupted frames include second long-term prediction lag values and second long-term prediction gain values, and wherein the second long term prediction lag values include a last long term prediction lag value and the second long term prediction gain values include a last long term prediction gain value, and the speech sequences include stationary and non-stationary speech sequences, and a first signal is used to indicate the <u>partially</u> corrupted frame, said system comprising:

a first means, responsive to the first signal, for determining whether the speech sequence in which the corrupted frame is arranged is stationary or non-stationary first long term prediction lag is within an upper limit and a lower limit, and for providing a second signal indicative of said determining;

a second means, responsive to the second signal, for replacing the first long-term prediction lag value in the <u>partially</u> corrupted frame with the last long-term prediction lag value when said speech sequence is stationary, and replacing the first long-term prediction lag value in the corrupted frame with a third lag value when said speech sequence is non-stationary the first long-term prediction lag value is outside the upper and lower limits; and retaining the first long-term prediction lag value in the partially corrupted frame when the first long-term prediction lag value is within the upper and lower limits.

- 12. (original) The system of claim 11, wherein the third lag value is determined based on the second long-term prediction lag values and an adaptively-limited random lag jitter.
- 13. (currently amended) The system of claim 11, wherein the second means further replaces the first long-term prediction gain value in the <u>partially</u> corrupted frame with a third gain value when said speech sequence is non-stationary when the first long-term prediction lag value is outside the upper and lower limits.
- 14. (original) The system of claim 13, wherein the third gain value is determined based on the second long-term prediction gain values and an adaptively-limited random gain jitter.

# 15. (canceled)

16. (currently amended) A decoder for synthesizing speech from an encoded bit stream, wherein the encoded bit stream includes a plurality of speech frames arranged in speech sequences, and the speech frames include at least one <u>partially</u> corrupted frame preceded by one or more non-corrupted frames, wherein the <u>partially</u> corrupted frame includes a first long-term prediction lag value and a first long-term prediction gain value, and the non-corrupted frames include second long-term prediction lag values and second long-term prediction gain values, and wherein the second long term prediction lag values include a last long term prediction gain value and the speech sequences include stationary and non-stationary speech sequences, and a first signal is used to indicate the <u>partially</u> corrupted frame, said decoder comprising:

a first means, responsive to the first signal, for determining whether the speech sequence in which the corrupted frame is arranged is stationary or non-stationary first long-term prediction lag is within an upper limit and a lower limit, and for providing a second signal indicative of said determining;

a second means, responsive to the second signal, for replacing the first long-term prediction lag value in the <u>partially</u> corrupted frame with the last long term prediction lag value when said speech sequence is stationary, and replacing the first long-term prediction lag value in the corrupted frame with a third lag value when said speech sequence is non-stationary the first

long-term prediction lag value is outside the upper and lower limits; and retaining the first long-term prediction lag value in the partially corrupted frame when the first long-term prediction lag value is within the upper and lower limits.

- 17. (currently amended) The decoder of claim 16, wherein the <u>third</u> lag value is determined based on the second long-term prediction lag values and an adaptively-limited random lag jitter.
- 18. (currently amended) The decoder of claim 16, wherein the second means further replaces the first long-term gain value in the <u>partially</u> corrupted frame with a third gain value when said speech sequence is non-stationary the first long-term prediction lag value is outside the upper and lower limits.
- 19. (original) The decoder of claim 18, wherein the third gain value is determined based on the second long-term prediction gain values and an adaptively-limited random gain jitter.

### 20. (canceled)

- 21. (currently amended) A mobile station, which is arranged to receive an encoded bit stream containing speech data indicative of speech signals, wherein the encoded bit stream includes a plurality of speech frames arranged in speech sequences, and the speech frames include at least one partially corrupted frame preceded by one or more non-corrupted frames, wherein the partially corrupted frame includes a first long-term prediction lag value and a first long-term prediction gain value, and the non-corrupted frames include second long-term prediction lag values and second long-term prediction gain values, and wherein the second long-term prediction lag values include a last long term prediction lag value and the second long term prediction gain values include a last long term prediction gain value and the speech sequences include stationary and non-stationary speech sequences, and wherein a first signal is used to indicate the corrupted frame, said mobile station comprising:
- a first means, responsive to the first signal, for determining whether the speech sequence in which the corrupted frame is arranged is stationary or non-stationary first long-term prediction

<u>lag is within an upper limit and a lower limit</u>, and for providing a second signal indicative of said determining;

a second means, responsive to the second signal, for replacing the first long-term prediction lag value in the <u>partially</u> corrupted frame with the last long-term prediction lag value when said speech sequence is stationary, and replacing the first long-term prediction lag value in the corrupted frame with a third lag value when said speech sequence is non-stationary the first long-term prediction lag value is outside the upper and lower limits; and retaining the first long-term prediction lag value in the partially corrupted frame when the first long-term prediction lag value is within the upper and lower limits.

- 22. (original) The mobile station of claim 21, wherein the third lag value is determined based on the second long-term prediction lag values and an adaptively-limited random lag jitter.
- 23. (currently amended) The mobile station of claim 21, wherein the second means further replaces the first long-term gain value in the <u>partially</u> corrupted frame with a third gain value when said speech sequence is non-stationary the first long-term prediction lag value is outside the upper and lower limits.
- 24. (original) The mobile station of claim 23, wherein the third gain value is determined based on the second long-term prediction gain values and an adaptively-limited random gain jitter.

### 25. (canceled)

26. (currently amended) An element in a telecommunication network, which is arranged to receive an encoded bit stream containing speech data from a mobile station, wherein the speech data includes a plurality of speech frames arranged in speech sequences, and the speech frames include at least one <u>partially</u> corrupted frame preceded by one or more non-corrupted frames, wherein the <u>partially</u> corrupted frame includes a first long-term prediction lag value and a first long-term prediction gain value, and the non-corrupted frames include second long-term prediction lag values and second long-term prediction gain values, and wherein the second long-term prediction lag values include a last long term prediction lag value and the second long term

prediction gain values include a last long-term prediction gain value and the speech sequences include stationary and non-stationary speech sequences, and wherein a first signal is used to indicate the corrupted frame, said element comprising:

a first means, responsive to the first signal, for determining whether the speech sequence in which the corrupted frame is arranged is stationary or non-stationary first long-term prediction lag is within an upper limit and a lower limit, and for providing a second signal indicative of said determining;

a second means, responsive to the second signal, for replacing the first long-term prediction lag value in the <u>partially</u> corrupted frame with the last long-term prediction lag value when said speech sequence is stationary, and replacing the first long-term prediction lag value in the corrupted frame with a third lag value when said speech sequence is non-stationary the first long-term prediction lag value is outside the upper and lower limits; and retaining the first long-term prediction lag value in the partially corrupted frame when the first long-term prediction lag value is within the upper and lower limits.

27. (original) The element of claim 26, wherein the third long-term prediction lag value is determined based on the second long-term prediction lag values and an adaptively-limited random lag jitter.

28. (currently amended) The element of claim 26, wherein the third means further replaces the first long-term prediction gain value with a third gain value when said speech sequence is non-stationary when the first long-term lag value is outside the upper and lower limits.

29. (original) The element of claim 28, wherein the third gain value is determined based on the second long-term prediction gain values and an adaptively-limited random gain jitter.

Claims 30-32 (canceled)